

11. (Newly Added) A microcomputer comprising PID designating means capable of selectively designating, as a PID of a replace packet, a PID of a packet of a predetermined type in a received transport stream which has been transmitted from a transmission system which multiplexes at least (1) compression coded contents of a program and (2) electronic program guide information containing at least program specific information having at least an NIT, a PAT, and a PMT and service information having at least an SDT and an EIT, and thereby produces and transmits a transport stream wherein:

said selectively designated PID of said replace packet is stored; and

all or part of said replace packet the PID of which has been stored is replaced with a packet which has been produced in advance.

12. (Newly Added) An LSI circuit wherein a PID of a packet of a predetermined type in a received transport stream which has been transmitted from a transmission system which multiplexes at least (1) compression coded contents of a program and (2) electronic program guide information containing at least program specific information having at least an NIT, a PAT, and a PMT and service information having at least an SDT and an EIT, and thereby produces and transmits a transport stream is selectively designated as a PID of a replace packet; said selectively designed PID of said replace packet is stored; and said LSI circuit comprises packet replacing means capable of replacing all or part of said replace packet the PID of which has been stored, with a packet which has been produced in advance.

13. (Newly Added) A digital broadcast system comprising:

a transmission system which multiplexes at least (1) compression coded contents of a program and (2) electronic program guide information containing at least program specific information having at least an NIT, a PAT, and PMT and service information having at least an SDT and an EIT, and thereby produces and transmits a transport stream; and

a reception system comprising: receiving means of receiving said transmitted transport stream; PID designating means capable of selectively designating a PID of a packet of a predetermined type in said received transport stream, as a PID of a

10 replace packet; replace PID storing means of storing said selectively designated PID
11 of said replace packet; and packet replacing means capable of replacing all or part of
12 said replace packet the PID of which has been stored, with a packet which has been
13 produced in advance.

1 14. (Newly Added) A reception method comprising:

2 a receiving step of receiving a transport stream transmitted from a
3 transmission system which multiplexes at least (1) compression coded contents of a
4 program and (2) electronic program guide information containing at least program
5 specific information having at least an NIT, a PAT, and a PMT and service information
6 having at least an SDT and an EIT, and thereby produces and transmits a transport
7 stream;

8 a PID designating step of selectively designating a PID of a packet of a
9 predetermined type in said received transport stream, as a PID of a replace packet;

10 a replace PID storing step of storing said selectively designated PID of said
11 replace packet; and

12 a packet replacing step of replacing all or part of said replace packet the PID
13 of which has been stored, with a packet which has been produced in advance.

1 15. (Newly Added) A program for causing a computer to serve as all or
2 part of said receiving means, said PID designating means, said replace PID storing
3 means, and said packet replacing means of said reception system according to claim
4 10.

1 16. (Newly Added) A computer-readable medium storing said program
2 according to claim 15.

1 17. (Newly Added) A program for causing a computer to serve as said PID
2 designating means of said microcomputer according to claim 11.

1 18. (Newly Added) A computer-readable medium storing said program
2 according to claim 17.

1 19. (Newly Added) A program for causing a computer to serve as said
2 packet replacing means of said LSI circuit according to claim 12.

1 20. (Newly Added) A computer-readable medium storing said program
2 according to claim 19.

1 21. (Newly Added) A reception system comprising:

2 receiving means of receiving a transport stream transmitted from a
3 transmission system which multiplexes at least (1) compression coded contents of a
4 program and (2) electronic program guide information containing at least program
5 specific information having at least an NIT, a PAT, and a PMT and service information
6 having at least an SDT and an EIT, and thereby produces and transmits a transport
7 stream;

8 SIT producing means of producing an SIT packet from said service
9 information in said received transport stream; and

10 packet replacing means capable of replacing at least said EIT packet with said
11 SIT packet.

1 22. (Newly Added) A reception system according to claim 21, wherein
2 said transport stream modified by said replacing is outputted as a recording-use
3 transport stream to the outside.

1 23. (Newly Added) A reception system according to claim 21, wherein
2 said packet replacing means is further capable of replacing said NIT packet with said
3 SIT packet.

1 24. (Newly Added) A digital broadcast system comprising:

2 a transmission system which multiplexes at least (1) compression coded
3 contents of a program and (2) electronic program guide information containing at
4 least program specific information having at least an NIT, a PAT, and a PMT and
5 service information having at least an SDT and an EIT, and thereby produces and
6 transmits a transport stream; and

7 a reception system comprising: receiving means of receiving said transmitted
8 transport stream; SIT producing means of producing an SIT packet from said service
9 information in said received transport stream; and packet replacement means
10 capable of replacing at least said EIT packet with said SIT packet.

1 25. (Newly Added) A reception method comprising:

2 a receiving step of receiving a transport stream transmitted from a
3 transmission system which multiplexes at least (1) compression coded contents of a
4 program and (2) electronic program guide information containing at least program
5 specific information having at least an NIT, a PAT, and a PMT and service information
6 having at least an SDT and an EIT, and thereby produces and transmits a transport
7 stream;

8 an SIT producing step of producing an SIT packet from said service
9 information in said received transport stream; and

10 a packet replacing step of replacing at least said EIT packet with said SIT
11 packet.

1 26. (Newly Added) A reception system comprising:

2 receiving means of receiving a transport stream transmitted from a
3 transmission system which multiplexes at least (1) compression coded contents of a
4 program and (2) electronic program guide information containing at least program
5 specific information having at least an NIT, a PAT, and a PMT and service information
6 having at least an SDT and an EIT, and thereby produces and transmits a transport
7 stream;

8 PID designating means capable of selectively designating a PID of a packet of
9 a predetermined type in said received transport stream, as a PID of a replace
10 packet;

11 replace PID storing means of storing said selectively designated PID of said
12 replace packet;

CONT
B1

13 SIT producing means of producing an SIT packet from said service
14 information in said received transport stream; and

15 packet replacing means capable of replacing all or part of said replace packet
16 the PID of which has been stored, with said SIT packet.

1 27. (Newly Added) A reception system according to claim 26, wherein:
2 said transport stream modified by said replacing is outputted as a recording-use
3 transport stream to the outside; and

4 said packet of said predetermined type in said received transport stream is of
5 an unnecessary packet for said recording-use transport stream.

1 28. (Newly Added) A reception system according to claim 27, wherein all
2 or part of said unnecessary packet is a packet which contains contents of a program
3 not to be recorded, among said compression coded contents of a program.

1 29. (Newly Added) A reception system according to any one of claims 26-
2 28, wherein said replacing and/or said selective designation are carried out on the
3 basis of interval information which is transmitted as an attachment to said electronic
4 program guide information from said transmission system, and which specifies an
5 interval in which said replacing and/or said selective designation is to be carried out.

1 30. (Newly Added) A reception system according to any one of claims 26-
2 28, wherein said replacing and/or said selective designation are carried out on the
3 basis of an interval in which said replacing and/or said selective designation is to be
4 carried out and which is set according to a predetermined criterion.

1 31. (Newly Added) A microcomputer comprising PID designating means
2 capable of selectively designating, as a PID of a replace packet, a PID of a packet of
3 a predetermined type in a received transport stream which has been transmitted
4 from a transmission system which multiplexes at least (1) compression coded
5 contents of a program and (2) electronic program guide information containing at
6 least program specific information having at least an NIT, a PAT, and a PMT and
7 service information having at least an SDT and an EIT, and thereby produces and
8 transmits a transport stream, wherein:

CONT
B!

9 said selectively designated PID of said replace packet is stored;

10 an SIT packet is produced from said service information in said received
11 transport stream; and

12 all or part of said replace packet the PID of which has been stored is replaced
13 with said SIT packet.

1 32. (Newly Added) An LSI circuit wherein: a PID of a packet of a
2 predetermined type in a received transport stream which has been transmitted from
3 a transmission system which multiplexes at least (1) compression coded contents of
4 a program and (2) electronic program guide information containing at least program
5 specific information having at least an NIT, a PAT and a PMT and service information
6 having at least an SDT and an EIT, and thereby produces and transmits a transport
7 stream is selectively designated as a PID of a replace packet; said selectively
8 designated PID of said replace packet is stored; an SIT packet is produced from said
9 service information in said received transport stream; and said LSI circuit comprises
10 packet replacing means capable of replacing all or part of said replace packet the PID
11 of which has been stored, with said SIT packet.

1 33. (Newly Added) An LSI circuit according to claim 32, wherein: said
2 transport stream modified by said replacing is outputted as a recording-use transport
3 stream to the outside; and

4 said packet of said predetermined type in said received transport stream is of
5 an unnecessary packet for said recording-use transport stream.

1 34. (Newly Added) An LSI circuit according to claim 33, wherein all or part
2 of said unnecessary packet is a packet which contains contents of a program not to
3 be recorded, among said compression coded contents of a program.

1 35. (Newly Added) An LSI circuit according to any one of claims 32-34,
2 wherein said replacing and/or said selective designation are carried out on the basis
3 of an interval in which said replacing and/or said selective designation is to be
4 carried out and which is set according to a predetermined criterion.

1 36. (Newly Added) A digital broadcast system comprising:

2 a transmission system which multiplexes at least (1) compression coded
3 contents of a program and (2) electronic program guide information containing at
4 least program specific information having at least an NIT, a PAT, and a PMT and
5 service information having at least an SDT and an EIT, and thereby produces and
6 transmits a transport stream; and

7 a reception system comprising: receiving means of receiving said transmitted
8 transport stream; PID designating means capable of selectively designating a PID of
9 a packet of a predetermined type in said received transport stream, as a PID of a
10 replace packet; replace PID storing means of storing said selectively designated PID
11 of said replace packet; SIT producing means of producing an SIT packet from said
12 service information in said received transport stream; and packet replacing means
13 capable of replacing all or part of said replace packet the PID of which has been
14 stored, with said SIT packet.

1 37. (Newly Added) A transmission system which multiplexes at least (1)
2 compression coded contents of a program and (2) electronic program guide
3 information containing at least program specific information having at least an NIT, a
4 PAT, and a PMT and service information having at least an SDT and an EIT, and
5 thereby produces and transmits a transport stream, wherein:

6 said transmitted transport stream is received;

7 a PID of a packet of a predetermined type in said received transport stream is
8 selectively designated as a PID of a replace packet;

9 said selectively designated PID of said replace packet is stored;

10 an SIT packet is produced from said service information in said received
11 transport stream;

12 all or part of said replace packet the PID of which has been stored is replaced
13 with said SIT packet;

CONT
B1

transmitted from said transmission system is interval information which is transmitted as an attachment to said electronic program guide information from said transmission system, and which specifies an interval in which said replacing and/or said selective designation is to be carried out; and

said replacing and/or said selective designation are carried out on the basis of said interval information.

38. (Newly Added) A reception method comprising:

a receiving step of receiving a transport stream transmitted from a transmission system which multiplexes at least (1) compression coded contents of a program and (2) electronic program guide information containing at least program specific information having at least an NIT, a PAT, and a PMT and service information having at least an SDT and an EIT, and thereby produces and transmits a transport stream;

a PID designating step of selectively designating a PID of a packet of a predetermined type in said received transport stream, as a PID of a replace packet;

a replace PID storing step of storing said selectively designated PID of said replace packet;

an SIT producing step of producing an SIT packet from said service information in said received transport stream; and

a packet replacing step of replacing all or part of said replace packet the PID of which has been stored, with said SIT packet.

39. (Newly Added) A program for causing a computer to serve as all or part of said receiving means, said SIT producing means, and said packet replacing means of said reception system according to claim 21.

40. (Newly Added) A computer-readable medium storing said program according to claim 39.

1 41. (Newly Added) A program for causing a computer to serve as all or
2 part of said receiving means, said PID designated means, said replace PID storing
3 means, said SIT producing means, and said packet replacing means of said reception
4 system according to claim 26.

1 42. (Newly Added) A computer-readable medium storing said program
2 according to claim 41.

1 43. (Newly Added) A program for causing a computer to serve as said PID
2 designating means of said microcomputer according to claim 30.

1 44. (Newly Added) A computer-readable medium storing said program
2 according to claim 43.

1 45. (Newly Added) A program for causing a computer to serve as said
2 packet replacing means of said LSI circuit according to claim 32.

1 46. (Newly Added) A computer-readable medium storing said program
2 according to claim 45.

1 47. (Newly Added) A reception system for: receiving a transport stream
2 which has been transmitted from a transmission system which multiplexes at least
3 (1) compression coded contents of a program and (2) electronic program guide
4 information containing at least program specific information having at least an NIT, a
5 PAT, and a PMT and service information having at least an SDT and an EIT, and
6 thereby produces and transmits a transport stream; modifying said received
7 transport stream by inserting an SIT packet thereinto; and then outputting said
8 modified transport stream; wherein

9 the interval in which said SIT packet is outputted is determined on the basis
10 of predetermined interval information which has been defined in advance.

1 48. (Newly Added) An LSI circuit for: receiving a transport stream which
2 has been transmitted from a transmission system which multiplexes at least (1)
3 compression coded contents of a program and (2) electronic program guide
4 information containing at least program specific information having at least an NIT, a

cont
B